

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
15 September 2005 (15.09.2005)

PCT

(10) International Publication Number
WO 2005/085053 A1

(51) International Patent Classification⁷: **B62K 11/00**

(21) International Application Number:
PCT/KR2005/000638

(22) International Filing Date: 8 March 2005 (08.03.2005)

(25) Filing Language: Korean

(26) Publication Language: English

(30) Priority Data:
10-2004-0015556 8 March 2004 (08.03.2004) KR

(71) Applicant and

(72) Inventor: **YANG, Kyung-Suk** [KR/KR]; #202, Sanjang villa, 1209-12, Jisan2-dong, Suseong-gu, Daegu 706-092 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BACK, In-suk** [KR/KR]; 555-202, Asan1-ri, Youngin-myon, Asan-si, Chungcheongnam-do 336-823 (KR).

(74) Agent: **LEE, Hong-kil**; 5th Fl., Samyoung bldg., 1570-3, Seocho-dong, Seocho-gu, Seoul 137-874 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

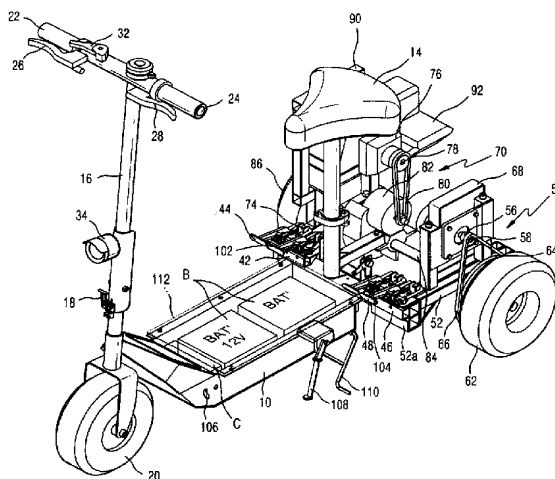
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: WHEEL EXCHANGEABLE SCOOTER



(57) **Abstract:** A scooter with variable wheel configuration capable of being configured from a two- wheeled vehicle to a three- wheeled vehicle and vice- versa, according to requirement, is provided. The scooter includes: a frame for supporting and carrying a rider or a passenger and containing a battery and a controller; a steering assembly mounted on the front of the frame to pivot in left and right directions for steering, the steering assembly having a lower portion to which a front wheel is rotatably mounted and an upper portion provided with a handgrip for a rider to steer, a brake lever, an actuator control lever, and a throttle grip; a mount formed at a rear end of the frame in one-piece, the mount having a first mounting portion on one end and a second mounting portion on the other end; a first driving unit detachably mounted on the first mounting portion of the mount for a two-wheeled configuration or on the second mounting portion of the mount for a three-wheeled configuration; and a second driving unit detachably mounted to the first mounting portion and connected to the first driving unit for the three-wheeled configuration.

WO 2005/085053 A1



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.